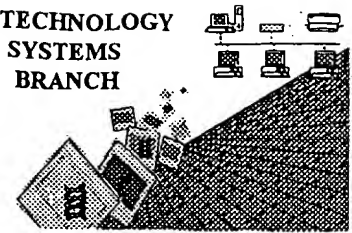


B. Celsa



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/710,444B
Source: 1600
Date Processed by STIC: 4-17-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: _____

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 _____ Wrapped Nucleics
 Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 _____ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 _____ Misaligned Amino
 Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 _____ Non-ASCII
 Text
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 _____ Variable Length
Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 _____ PatentIn 2.0
 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 _____ Skipped Sequences
 (OLD RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 _____ Skipped Sequences
 (NEW RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 _____ Use of n's or Xaa's
 (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 _____ Invalid <213>
 Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 _____ Use of <220>
Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 _____ PatentIn 2.0
 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 _____ Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



1600

RAW SEQUENCE LISTING

DATE: 06/02/2003

PATENT APPLICATION: US/09/710,444B

TIME: 14:40:18

Input Set : A:\sequence listing\Mzw2841.txt

Output Set: N:\CRF4\06022003\I710444B.raw

5 <110> APPLICANT: Diversys Limited
 7 Tomlinson, Ian
 9 Winter, Greg
 13 <120> TITLE OF INVENTION: Library
 17 <130> FILE REFERENCE: p3038.jp
 C--> 21 <140> CURRENT APPLICATION NUMBER: US/09/710,444B
 C--> 23 <141> CURRENT FILING DATE: 2000-11-20
 27 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03135
 29 <151> PRIOR FILING DATE: 1998-10-20
 33 <150> PRIOR APPLICATION NUMBER: GB 9722131.1
 35 <151> PRIOR FILING DATE: 1997-10-20
 39 <150> PRIOR APPLICATION NUMBER: US 60/065428
 41 <151> PRIOR FILING DATE: 1997-11-13
 45 <150> PRIOR APPLICATION NUMBER: US 60/066729
 47 <151> PRIOR FILING DATE: 1997-11-21
 51 <160> NUMBER OF SEQ ID NOS: 87
 55 <170> SOFTWARE: PatentIn version 3.0
 59 <210> SEQ ID NO: 1
 61 <211> LENGTH: 20
 63 <212> TYPE: DNA
 65 <213> ORGANISM: Artificial
 69 <220> FEATURE:
 71 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
 73 <400> SEQUENCE: 1
 74 gaggtgcagc tgttgagtc
 77 <210> SEQ ID NO: 2
 79 <211> LENGTH: 69
 81 <212> TYPE: DNA
 83 <213> ORGANISM: Artificial
 87 <220> FEATURE:
 89 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
 91 <220> FEATURE:
 93 <221> NAME/KEY: variation
 95 <222> LOCATION: (23)..(24)
 97 <223> OTHER INFORMATION: X is any nucleotide
 101 <220> FEATURE:
 103 <221> NAME/KEY: variation
 105 <222> LOCATION: (29)..(30)
 107 <223> OTHER INFORMATION: X is any nucleotide
 111 <220> FEATURE:
 113 <221> NAME/KEY: variation
 115 <222> LOCATION: (32)..(33)
 117 <223> OTHER INFORMATION: X is any nucleotide

7P 1-6
 Does Not Comply
 Corrected Diskette Needed

give
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20

see
 item III
 on error
 summary
 sheet

per sequence
 Rules use
 "n"

RAW SEQUENCE LISTING

DATE: 06/02/2003

PATENT APPLICATION: US/09/710,444B

TIME: 14:40:18

Input Set : A:\sequence listing\Mzw2841.txt

Output Set: N:\CRF4\06022003\I710444B.raw

121 <220> FEATURE:
 123 <221> NAME/KEY: variation
 125 <222> LOCATION: (38)..(39)
 127 <223> OTHER INFORMATION: (X) is any nucleotide
 131 <220> FEATURE:
 133 <221> NAME/KEY: variation
 135 <222> LOCATION: (41)..(42)
 137 <223> OTHER INFORMATION: (X) is any nucleotide
 141 <220> FEATURE:
 143 <221> NAME/KEY: variation
 145 <222> LOCATION: (44)..(45)
 147 <223> OTHER INFORMATION: (X) is any nucleotide
 151 <220> FEATURE:
 153 <221> NAME/KEY: variation
 155 <222> LOCATION: (50)..(51)
 157 <223> OTHER INFORMATION: (X) is any nucleotide
 161 <400> SEQUENCE: 2

W--> 162 gcccttcacg gagtctgcgt amnntgtmnn mnnaccmnnm nnnmnaatmn ntgagaccca 60
 164 ctccagccc 69

167 <210> SEQ ID NO: 3
 169 <211> LENGTH: 69
 171 <212> TYPE: DNA
 173 <213> ORGANISM: Artificial
 177 <220> FEATURE:
 179 <223> OTHER INFORMATION: Description of Artificial Sequence (oligonucleotide)
 181 <400> SEQUENCE: 3
 182 tabhtgagac ccaactccagc ccgcccttca cggagtctgc gtaabhtgta bhabhaccab 60
 184 habhabhaa 69

187 <210> SEQ ID NO: 4
 189 <211> LENGTH: 19
 191 <212> TYPE: DNA
 193 <213> ORGANISM: Artificial
 197 <220> FEATURE:
 199 <223> OTHER INFORMATION: Description of Artificial Sequence (oligonucleotide)
 201 <400> SEQUENCE: 4
 202 cgcagactcc gtgaagggc 19
 205 <210> SEQ ID NO: 5
 207 <211> LENGTH: 53
 209 <212> TYPE: DNA
 211 <213> ORGANISM: Artificial
 215 <220> FEATURE:
 217 <223> OTHER INFORMATION: Description of Artificial Sequence (oligonucleotide)
 219 <220> FEATURE:

221 <221> NAME/KEY: variation
 223 <222> LOCATION: (23)..(24)
 225 <223> OTHER INFORMATION: (X) is any nucleotide
 229 <220> FEATURE:
 231 <221> NAME/KEY: variation
 233 <222> LOCATION: (26)..(27)

P.3

RAW SEQUENCE LISTING

DATE: 06/02/2003

PATENT APPLICATION: US/09/710,444B

TIME: 14:40:18

Input Set : A:\sequence listing\Mzw2841.txt

Output Set: N:\CRF4\06022003\I710444B.raw

235 <223> OTHER INFORMATION: (X) is any nucleotide
 239 <220> FEATURE:
 241 <221> NAME/KEY: variation
 243 <222> LOCATION: (29)..(30) n
 245 <223> OTHER INFORMATION: (X) is any nucleotide
 249 <220> FEATURE:
 251 <221> NAME/KEY: variation
 253 <222> LOCATION: (32)..(33) n
 255 <223> OTHER INFORMATION: (X) is any nucleotide
 259 <400> SEQUENCE: 5
 W--> 260 tccctggccc cagtagtcaa amnnmnnmnn mnntttcgca cagtaatata cgg 53
 263 <210> SEQ ID NO: 6
 265 <211> LENGTH: 53
 267 <212> TYPE: DNA
 269 <213> ORGANISM: Artificial
 273 <220> FEATURE:
 275 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
 277 <400> SEQUENCE: 6
 278 tccctggccc cagtagtcaa aabhabhabh abhtttcgca cagtaatata cgg 53
 281 <210> SEQ ID NO: 7
 283 <211> LENGTH: 20
 285 <212> TYPE: DNA
 287 <213> ORGANISM: Artificial
 291 <220> FEATURE:
 293 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
 295 <400> SEQUENCE: 7
 296 gacatccaga tgacccagtc 20
 299 <210> SEQ ID NO: 8
 301 <211> LENGTH: 51
 303 <212> TYPE: DNA
 305 <213> ORGANISM: Artificial
 309 <220> FEATURE:
 311 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
 313 <220> FEATURE:
 315 <221> NAME/KEY: variation
 317 <222> LOCATION: (21)..(22) n
 319 <223> OTHER INFORMATION: (X) is any nucleotide
 323 <220> FEATURE:
 325 <221> NAME/KEY: variation
 327 <222> LOCATION: (30)..(31) n
 329 <223> OTHER INFORMATION: (X) is any nucleotide
 333 <400> SEQUENCE: 8
 W--> 334 atgggacccc actttgcaam nnggatgcmn natagatcag gagcttaggg g 51
 337 <210> SEQ ID NO: 9
 339 <211> LENGTH: 51
 341 <212> TYPE: DNA
 343 <213> ORGANISM: Artificial
 347 <220> FEATURE:
 349 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide

RAW SEQUENCE LISTING

DATE: 06/02/2003

PATENT APPLICATION: US/09/710,444B

TIME: 14:40:18

Input Set : A:\sequence listing\Mzw2841.txt

Output Set: N:\CRF4\06022003\I710444B.raw

```

351 <400> SEQUENCE: 9
352 atgggacccc actttgcaaa bhggatgcab hatagatcag gagcttaggg g 51
355 <210> SEQ ID NO: 10
357 <211> LENGTH: 19
359 <212> TYPE: DNA
361 <213> ORGANISM: Artificial
365 <220> FEATURE:
367 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
369 <400> SEQUENCE: 10
370 ttgcaaagtg ggtcccat 19
373 <210> SEQ ID NO: 11
375 <211> LENGTH: 60
377 <212> TYPE: DNA
379 <213> ORGANISM: Artificial
383 <220> FEATURE:
385 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
387 <220> FEATURE:
389 <221> NAME/KEY: Variation
391 <222> LOCATION: (23)..(24) n
393 <223> OTHER INFORMATION: X is any nucleotide
397 <220> FEATURE:
399 <221> NAME/KEY: Variation
401 <222> LOCATION: (29)..(30) n
403 <223> OTHER INFORMATION: X is any nucleotide
407 <220> FEATURE:
409 <221> NAME/KEY: Variation
411 <222> LOCATION: (32)..(33) n
413 <223> OTHER INFORMATION: X is any nucleotide
417 <220> FEATURE:
419 <221> NAME/KEY: Variation
421 <222> LOCATION: (35)..(36) n
423 <223> OTHER INFORMATION: X is any nucleotide
427 <220> FEATURE:
429 <221> NAME/KEY: Variation
431 <222> LOCATION: (38)..(39) n
433 <223> OTHER INFORMATION: X is any nucleotide
437 <400> SEQUENCE: 11
W--> 438 cttggtccct tggccgaacg tmnnaggmnn mnnmnnmnnnc tgttgacagt agtaagttgc 60
441 <210> SEQ ID NO: 12
443 <211> LENGTH: 60
445 <212> TYPE: DNA
447 <213> ORGANISM: Artificial
451 <220> FEATURE:
453 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
455 <400> SEQUENCE: 12
456 cttggtccct tggccgaacg tabhaggabh abhabhabhc tgttgacagt agtaagttgc 60
459 <210> SEQ ID NO: 13
461 <211> LENGTH: 20
463 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 06/02/2003

PATENT APPLICATION: US/09/710,444B

TIME: 14:40:18

Input Set : A:\sequence listing\Mzw2841.txt

Output Set: N:\CRF4\06022003\I710444B.raw

465 <213> ORGANISM: Artificial
 469 <220> FEATURE:
 471 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
 473 <400> SEQUENCE: 13
 474 gaggtgcagc tgttgagtc
 477 <210> SEQ ID NO: 14
 479 <211> LENGTH: 53
 481 <212> TYPE: DNA
 483 <213> ORGANISM: Artificial
 487 <220> FEATURE:

20

489 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
 491 <220> FEATURE:
 493 <221> NAME/KEY: Variation
 495 <222> LOCATION: (21)..(22)
 497 <223> OTHER INFORMATION: X is any nucleotide
 501 <220> FEATURE:

503 <221> NAME/KEY: Variation
 505 <222> LOCATION: (27)..(28)
 507 <223> OTHER INFORMATION: X is any nucleotide
 511 <220> FEATURE:

513 <221> NAME/KEY: Variation
 515 <222> LOCATION: (33)..(34)
 517 <223> OTHER INFORMATION: X is any nucleotide
 521 <400> SEQUENCE: 14

W--> 522 ctggagcctg gcggacccam nncatmnnat amnngctaaa ggtgaatcca gag

53

525 <210> SEQ ID NO: 15

527 <211> LENGTH: 53

529 <212> TYPE: DNA

531 <213> ORGANISM: Artificial

535 <220> FEATURE:

537 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide

539 <400> SEQUENCE: 15

540 ctggagcctg gcggacccaa bhcatbhat aabhgctaaa ggtgaatcca gag

53

543 <210> SEQ ID NO: 16

545 <211> LENGTH: 19

547 <212> TYPE: DNA

549 <213> ORGANISM: Artificial

553 <220> FEATURE:

555 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide

557 <400> SEQUENCE: 16

558 tgggtccgcc aggtccag

19

561 <210> SEQ ID NO: 17

563 <211> LENGTH: 53

565 <212> TYPE: DNA

567 <213> ORGANISM: Artificial

571 <220> FEATURE:

573 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide

575 <220> FEATURE:

577 <221> NAME/KEY: Variation

Please correct
 this error in
 subsequent sequence.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/710,444B

DATE: 06/02/2003
TIME: 14:40:19

Input Set : A:\sequence listing\Mzw2841.txt
Output Set: N:\CRF4\06022003\I710444B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 23,24,29,30,32,33,38,39,41,42,44,45,50,51
Seq#:5; N Pos. 23,24,26,27,29,30,32,33
Seq#:8; N Pos. 21,22,30,31
Seq#:11; N Pos. 23,24,29,30,32,33,35,36,38,39
Seq#:14; N Pos. 21,22,27,28,33,34
Seq#:17; N Pos. 23,24,26,27,29,30,32,33
Seq#:20; N Pos. 21,22,27,28,30,31,33,34
Seq#:23; N Pos. 23,24

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75
Seq#:76,77,78,79,80,81,82,83,84,85,86,87

VERIFICATION SUMMARY

DATE: 06/02/2003

PATENT APPLICATION: US/09/710,444B

TIME: 14:40:19

Input Set : A:\sequence listing\Mzw2841.txt

Output Set: N:\CRF4\06022003\I710444B.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application Number
L:23 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0